P18

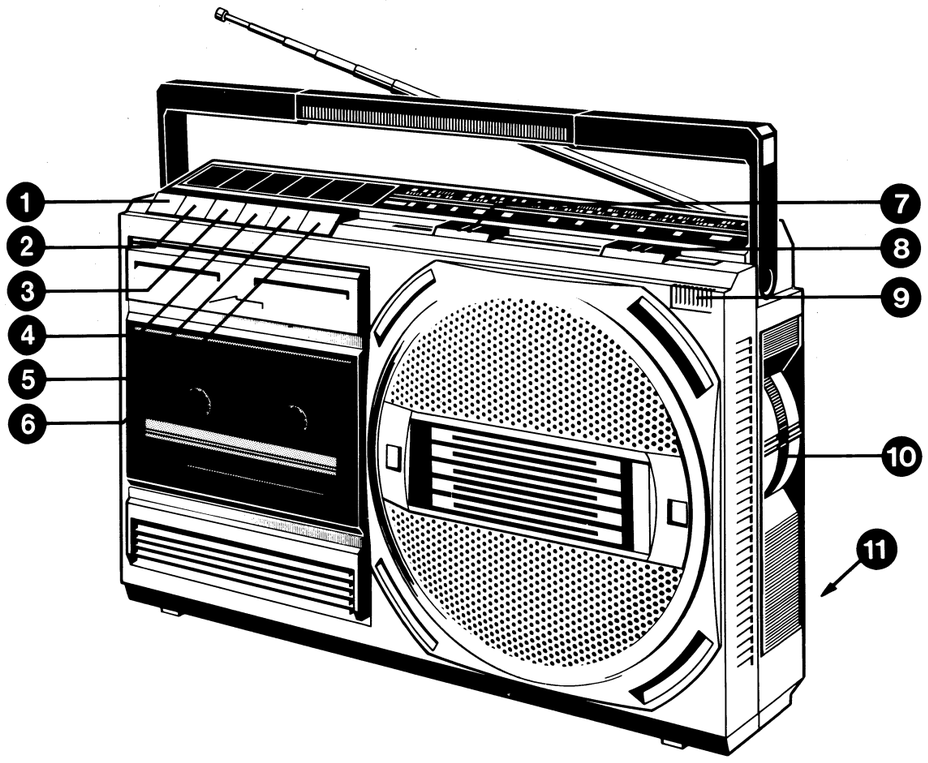
Radio recorder D7140

01/02/10/11/19

Service
Service
Service

For repair information of the cassette mechanism see Service Manual of "Recorders tape deck RT-1" and "RT-33"

Service Manual



26330

Connections and control:

1		
2		SK-C
3		SK-C
4		SK-C
5		SK-C
6		SK-B,SK-C
7	Function switch	SK-A
8		3510
9		4001
10		2000
11		Mains Socket

Specifications:

		110/220V 50Hz
		6V
	~	600mW ± 1dB } 4Ω
	~	800mW ± 1dB } (d=10%)
AM IF		455KHz
FM IF		10.7MHz
MW		520-1605KHz
FM		87.5-108MHz
Tape speed		4.76cm/sec ± 3%
Wow and flutter		<0.4%
Signal to noise ratio		>35dB (TC-R)
Freq response (within 6dB)		125Hz-6.3KHz (TC-R)

SK...							

AM-IF

MW	455KHz Δf=10KHz via 47nF	C	min.		5042 5043	1 Symmetrical max fo	

AM-RF

MW * 520-1605KHz	512KHz 1635KHz 600KHz 1400KHz	D	max. min.		5002 CTd 5001 CTc		1 max.

* Mod 1KHz 30%

FM-IF

FM	≈ 10.7MHz Δf=300KHz (50Hz) via 10nF	B	min.	5045	5041 5044 5045	1 Symmetrical max fo 1 Symm + Linear	

FM-RF

FM 87.5-108MHz	86.5MHz Mod 1KHz f=22.5KHz 109MHz Mod 1KHz f=22.5KHz	A	max. min.		5022 5021 CTb CTa		1 max.

Repeat - Herhalen - Répéter - Wiederholen - Repetera - Ricominciare - Gentage - Ghentagelse - Toista

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

Subject to modification
4822 725 20082
Printed in The Netherlands

PHILIPS

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

1003 N11	2051 O2	2057 O7	2105 O11	2110 N17	2503 F14	2552 J19	2557 K19	2781 G6	2790 E6	3101 J3	3108 N18	3502 H14	3507 G15	3551 H20	3704 C14	4001 I11	5021 P5	5044 N15	7181 N4	7401 F15
1006 D12	2052 N2	2058 N5	2106 O15	2111 J11	2504 F15	2553 L20	2558 K23	2782 E7	2791 F3	3103 P9	3109 L15	3503 F14	3508 K16	3553 L22	3705 D14	4002 J24	5022 N8	5045 O15	7186 L11	7402 F16
1007 C12	2053 O3	2101 M7	2107 N14	2112 L14	2505 G16	2554 L21	2559 K23	2783 E8	2792 E3	3105 N11	3110 J12	3504 E14	3509 I17	3701 C11	3781 G6	4003 D4	5041 L6	5101 F2	7221 E11	7421 F16
2001 K2	2055 P5	2102 J9	2108 K15	2501 H11	2506 D13	2555 I20	2701 E11	2784 F8	3051 N6	3106 N11	3111 I4	3505 F15	3510 J18	3702 D11	3782 F6	5001 K3	5042 P10	7011 O16	7253 F3	7477 K20
2002 H2	2056 O5	2104 P11	2109 O17	2502 K15	2551 J18	2556 I21	2702 D15	2785 G7	3052 O8	3107 D18	3501 H11	3506 E15	3511 H14	3703 D15	3783 E9	5002 H3	5043 O11	7012 N16	7254 E3	

CARBON RESISTOR 0.33W

PLATE CERAMIC CAPACITOR

TUBLAR CAPACITOR

ELECTROLYTIC CAPACITOR

NOTE: * d=10V. e=16V. f=25V. G=50V.

ELECTRONIC VOLTMETER

V. AM

V. FM.

V.

* Printed on copper pattern

FUNCTION SWITCH SK-A

Tape/Radio off

AM

FM

RECORDING SWITCH SK-B

MOTOR SWITCH SK-C

ON

OFF

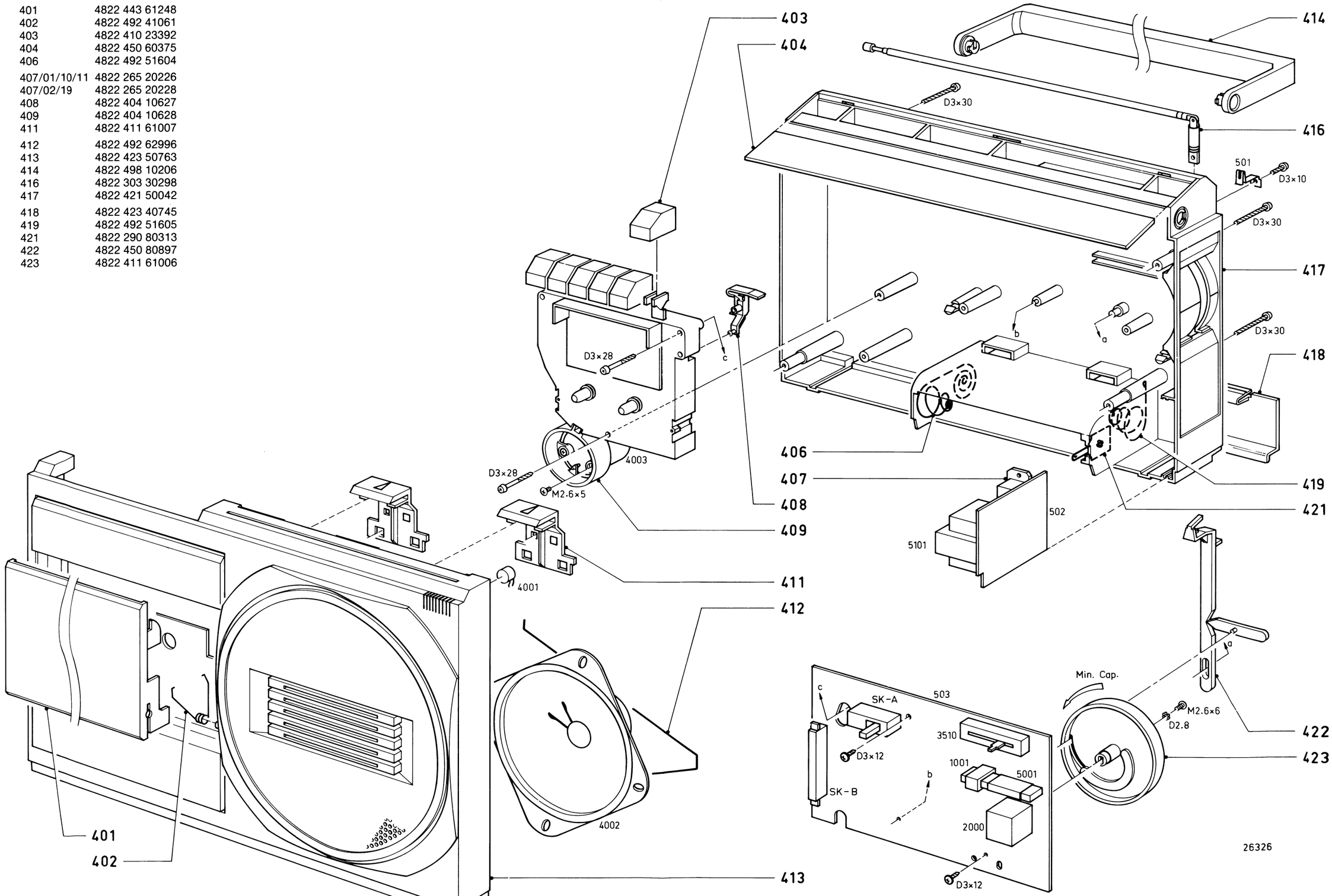
26312

SUBJECT TO MODIFICATION

THE CIRCUIT HAS BEEN DRAWN IN POSITION TAPE/RADIO OFF, PLAYBACK AND MOTOR ON.

CS 93 888

401	4822 443 61248
402	4822 492 41061
403	4822 410 23392
404	4822 450 60375
406	4822 492 51604
407/01/10/11	4822 265 20226
407/02/19	4822 265 20228
408	4822 404 10627
409	4822 404 10628
411	4822 411 61007
412	4822 492 62996
413	4822 423 50763
414	4822 498 10206
416	4822 303 30298
417	4822 421 50042
418	4822 423 40745
419	4822 492 51605
421	4822 290 80313
422	4822 450 80897
423	4822 411 61006



CS 93 890

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⊣▶⊢		
7011,7012	2OA90M	4822 130 32254
7221	OA95	4822 130 30191
7253,7254	1N4001	4822 130 30861
⊣⊢		
2000	Varco	4822 125 20274
2002	Cer. cap. 6 pF	4822 122 31224
2052,2055	Cer. cap. 20 pF	4822 122 31226
2501	Cer. cap. 100 nF 25 V	5322 122 34052
2502,2783	Cer. cap. 100 nF 12 V	4822 122 32041
Transistors, ICs		
7181	AN7213	4822 209 81266
7186	TEA5570	4822 209 81563
7401	TBC549C	4822 130 44246
7402,7421	TBC558B	4822 130 44197
7477	AN7110	4822 209 81936
Miscellaneous		
1001	Ferrite bar	4822 526 10176
1003	Cer. filter 10.7 MHz	4822 242 70249
1006	Rec./playback head	4822 249 10122
1007	Erase head	4822 249 40123
3510	Potmeter volume 20k	4822 105 10489
4001	Electr. microphone	4822 242 30079
4002	Loudspeaker 4 Ω	4822 240 30207
4003	Motor 6 V	4822 361 20463
	SK-B	4822 277 20594
Coils		
5001	MW ant. coil	4822 157 51816
5002	MW osc. coil	4822 156 30485
5041	IFT-FM (orange)	4822 156 30932
5042	IFT-AM (black)	4822 156 30933
5043	IFT-AM (white)	4822 156 30934
5044	IFT-FM (pink)	4822 156 30926
5045	IFT-AM (blue)	4822 156 30935
5101/19	Mains transformer	4822 146 20854
5101/01/17	Mains transformer	4822 146 20855

Adjustment	Cassette	Recorder in position	Measure on	Read on	Adjust with	Adjust to
Play back speed	3150 Hz of SBC420*	PLAY	Speaker terminals	Wow- and flutter meter	Preset in motor	**a
Azimuth R/P head	8 kHz of SBC420*	PLAY	Speaker terminals	mV-meter	Left screw R/PB head	Max. output

* 4822 397 30071

**a The maximum permissible speed deviation is 3%. Moreover, the wow-and-flutter value can be read. This value should not exceed 0.4%.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.